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	Application No.	Applicant(s)	7
Notice of Allowability	10/661,844	TOTH ET AL.	
	Examiner	Art Unit	
	Irakli Kiknadze	2882	
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in the commetter of the commetter appropriate commetter in the commetter is the commetter of the commetter in the commetter in the commetter of the commetter in the commetter in the commetter of the commetter in the commetter of the commetter in the commetter of the commette	n this application. If not included unication will be mailed in due cou	rse. THIS
1. $igotimes$ This communication is responsive to <u>the Amendment filed</u>	on 5/23/05.		
2. 🔀 The allowed claim(s) is/are <u>1-37</u> .			
3. X The drawings filed on 12 September 2003 are accepted by	y the Examiner.		
4. ☐ Acknowledgment is made of a claim for foreign priority une a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have	e been received.		
2. Certified copies of the priority documents have	• •		
 Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). 	cuments have been receive	d in this national stage application	from the
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file IENT of this application.	e a reply complying with the require	ements
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv	nitted. Note the attached EX es reason(s) why the oath o	AMINER'S AMENDMENT or NOTI r declaration is deficient.	CE OF
6. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.		
(a) 🔲 including changes required by the Notice of Draftspers	son's Patent Drawing Review	w (PTO-948) attached	
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date			
(b) including changes required by the attached Examiner' Paper No./Mail Date	s Amendment / Comment o	r in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	.84(c)) should be written on t the header according to 37 CF	he drawings in the front (not the bac R 1.121(d).	:k) of
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 	SIT OF BIOLOGICAL MATE FOR THE DEPOSIT OF BIO	ERIAL must be submitted. Note DLOGICAL MATERIAL.	the
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5 ☐ Notice of In	formal Patent Application (PTO-15	52)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. 🔲 Interview S	ummary (PTO-413),	,2)
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paper No. 98), 7. 🗌 Examiner's	/Mail Date Amendment/Comment	
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit	8. 🗌 Examiner's	Statement of Reasons for Allowar	nce
of Biological Material	9.		
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DETAILED ACTION

1. In response to the Office action dated March 23, 2005 the Amendment has been received on May 23, 2005.

Claims 1, 13, 16 and 27 have been amended.

Claims 1-37 are currently pending in this application.

Allowable Subject Matter

- 2. Claims 1-37 are allowed.
- 3. The following is an examiner's statement of reasons for allowance:

Claims 1-11 are allowed because prior art fails to teach or make obvious a method positioning a filter having an anode side and a cathode side between an X-ray source and an X-ray detector, wherein the cathode side has a higher attenuation coefficient than the anode side, and wherein the attenuation coefficient is determined to at least partially compensate for an x-ray tube target angle heel effect as claimed in claim. Claims 2-11 are allowed by virtue of their dependence.

Claims 12-15 are allowed because prior art fails to teach or make obvious an X-ray tube comprising: a material deposited on a beryllium window, wherein the material is wedge shaped, wherein the wedge shape comprises a horizontal top, a bottom, a first vertical side and a second vertical side, wherein said horizontal top and said bottom are not parallel and wherein the first vertical side and said second vertical side are unequal in length as claimed in claim 12. Claims 13-15 are allowed by virtue of their dependence.

Claims 16-26 are allowed because prior art fails to teach or make obvious an imaging system for scanning an object comprising: a filter having an anode side and a cathode side, positioned between a radiation source and a detector, wherein the cathode side has a higher attenuation coefficient than the anode side, and wherein the attenuation coefficient is determined to at least partially compensate for a target angle heel effect as claimed in claim 16. Claims 17-26 are allowed by virtue of their dependence.

Claims 27-37 are allowed because prior art fails to teach or make obvious a Computed Tomopaphy (CT) imaging system for scanning an object comprising: a filter having an anode side and a cathode side, positioned between an x-ray source and an x-ray detector, wherein the cathode side has a higher attenuation coefficient than the anode side, and wherein the attenuation coefficient is determined to at least partially compensate for a target angle heel effect as claimed in claim 27. Claims 28-37 are allowed by virtue of their dependence.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Grossmann (US Patent 2,225,940) and Moore (US Patent

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4,181,858) teach the wedge shape compensating filters for X-ray sources but fail to

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teach compensation for the x-ray tube target angle heel effect. Hartwell (US Patent

4,499,591) teaches a protective filter attached to an X-ray radiation source but fails to

teach that the filter has a wedge shape and provides compensation for the x-ray tube

target angle heel effect.

5. Any inquiry concerning this communication or earlier communications from

the examiner should be directed to Irakli Kiknadze whose telephone number is 571-272-

2493. The examiner can normally be reached on 9:00- 5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Ed Glick can be reached on 571-272-2490. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Irakli Kiknadze June 7, 2005

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EDWARD J. GLICK SUPERVISORY PATENT EXAMINER